



KANSAS CORPORATION COMMISSION 1067791
OIL & GAS CONSERVATION DIVISION

Form ACO-1

June 2009

Form Must Be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

- New Well Re-Entry Workover
- Oil WSW SWD SIOW
- Gas D&A ENHR SIGW
- OG GSW Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

- Deepening Re-perf. Conv. to ENHR Conv. to SWD
- Conv. to GSW
- Plug Back: _____ Plug Back Total Depth _____
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Recompletion Date Date Reached TD Completion Date or Recompletion Date

API No. 15 - _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite: _____

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

- Letter of Confidentiality Received
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____



Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i> List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: Yes No

Date of First, Resumed Production, SWD or ENHR. _____ Producing Method: Flowing Pumping Gas Lift Other *(Explain)* _____

Estimated Production Per 24 Hours	Oil Bbbs.	Gas Mcf	Water Bbbs.	Gas-Oil Ratio	Gravity
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DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: _____ _____
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Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802



Phone: 316-337-6200
Fax: 316-337-6211
<http://kcc.ks.gov/>

Mark Sievers, Chairman
Ward Loyd, Commissioner
Thomas E. Wright, Commissioner

Sam Brownback, Governor

November 15, 2011

Murfin Drilling Co., Inc.
250 N WATER STE 300
WICHITA, KS 67202-1216

Re: ACO1
API 15-141-20436-00-00
Thornburg 1-6
SW/4 Sec.06-08S-14W
Osborne County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,

MDCI
 Thornburg #1-6
 2310' FSL 1000' FEL
 Sec. 6-T8S-R14W
 1854' KB

Jackson Drilling Corp.
 Dean #1
 SW SW SW
 Sec. 5-T8S-R14W
 1808' KB

Formation	Sample Top	Datum	Ref	Log tops	Datum	Ref	Log tops	Datum
Anhydrite	1129	+725	-9	1122	+732	-2	1074	+734
B/Anhydrite	1163	+691	-13	1159	+695	-9	1104	+704
Topeka	2775	-921	+17	2773	-919	+19	2746	-938
Heebner	3006	-1152	+21	3005	-1151	+22	2981	-1173
Toronto	3028	-1174	+18	3026	-1172	+20	3000	-1192
Lansing	3053	-1199	+22	3051	-1197	+24	3029	-1221
Stark	3271	-1417	+21	3271	-1417	+21	3246	-1438
BKC	3331	-1477	+21	3328	-1474	+24	3306	-1498
Viola	3590	-1736	+7	3588	-1734	+9	3551	-1743
Simpson	3649	-1795	+67	3653	-1799	+63	3670	-1862
Arbuckle	3700	-1846	+71	3704	-1850	+67	3725	-1917
RTD	3767						3768	
LTD				3767			3764	



GEOLOGIST'S REPORT

OPERATOR: MURFIN DRILLING COMPANY, INC.
LEASE: THORNBERG # 1-6
LOCATION: 2310 FSL & 1000 FWL

SEC: 6 TWP: 8S RGE: 14W
COUNTY: OSBORNE STATE: KANSAS
FIELD: WILD CAT

CONTRACTOR: Mufin Drilling Company
COMMENCED: 1 SEPT 2011
MUD DRILLING: MUD YIELD 9 SEPT 2011

DRILLING TIME KEPT FROM: 220 TO 3767
SAMPLES SAVED FROM: 220 TO 3767
SAMPLES EXAMINED FROM: 220 TO 3767

GEOLOGICAL SUPERVISION FROM: 705 TO 3767
GEOLOGIST ON WELL: Paul Gurellman

FORMATION NAME LOG DATUM TOP DATUM
Stones Corral 1122 +732 1129 +725

Base/Anhydrite 1169 +695 1163 +691
Tobacco 2773 -919 2775 -921

Heebner Shale 3005 -1151 3006 -1152
Leaning 3091 -1197 3093 -1199

Base/Kansas City 3328 -1474 3331 -1477
Viola 3588 -1724 3590 -1726

Simpson 3653 -1799 3649 -1795
Amudche 3704 -1850 3700 -1846

Tidal Depth 3767 -1913 3767 -1913

Log-Tech, Inc.
Comp. Neutron Density

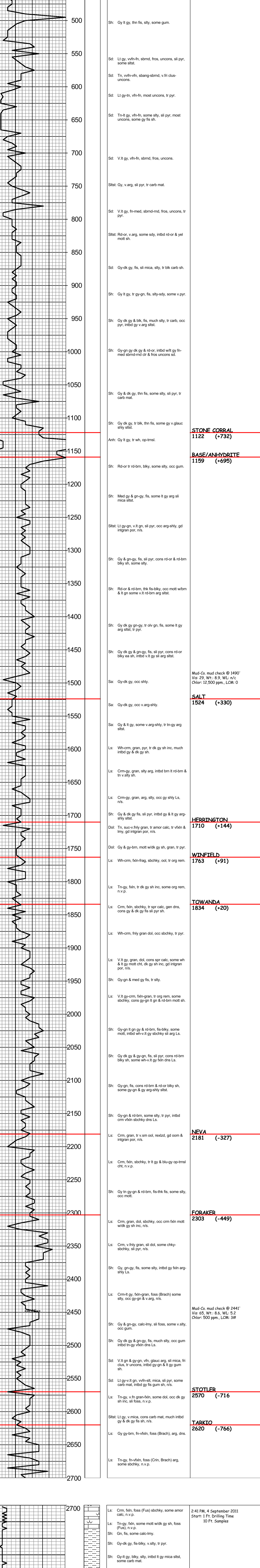
ELECTRICAL SURVES:
Log-Tech, Inc.
Comp. Neutron Density

EL ELEVATIONS
1854 FT.
1849 FT.

Table with 2 columns: LOG DATUM TOP, DATUM

REMARKS
API 15-141-20436-00-00
Drilling Fluids: Mud-Co/Service Mud, Inc. (Gary Schmittberger, engineer)
Drill Stem Testing: Triobite Testing, Inc. (Brett Dickinson, tester)
Gas Tracer: Earth-Tech OGL, Inc. (unmanned)
Reserve Pit Chlorides: 21.000 ppm.

Table with 4 columns: DRILL TIME (MIN/FT), DEPTH, SAMPLE DESCRIPTIONS, REMARKS



STONE CORRAL 1122 (-732)

BASE/ANHYDRITE 1159 (-695)

Mud-Co mud check @ 1490'
Vis: 29, Wt: 8.9, WL: 5.8
Chlor: 12,500 ppm, LCM: 0

SALT 1524 (+330)

HERRINGTON 1710 (+144)

WINFIELD 1763 (+91)

TOWANDA 1834 (+20)

NEVA 2181 (-327)

FORAKER 2303 (-449)

Mud-Co mud check @ 2441'
Vis: 65, Wt: 8.6, WL: 5.2
Chlor: 500 ppm, LCM: 3#

STOTLER 2570 (-716)

TARKIO 2620 (-766)

Mud-Co mud check @ 2818'
Vis: 71, Wt: 8.9, WL: 5.0
Chlor: 500 ppm, LCM: 3#

TOPEKA 2775 (-921)

DST # 1 2798 - 2818
30"-60"-60"-90"
IF: Fair blow, inc. to 9 inches
FF: Good blow, inc. to 8 inches
RECOVERY: 120 Ft. Gas Cut Mud (5% Gas, 95% Oil, 28 grav API)
60 Ft. Oil & Gas Cut Mud (25% Oil, 10% Gas)
IHP: 1377 psi FHP: 1340 psi
IFP: 25-29 psi ISIP: 1080 psi
FFP: 35-39 psi FSIP: 1078 psi
BHT: 94 deg. F.

Mud-Co mud check @ 3130'
Vis: 61, Wt: 9.4, WL: 5.8
Chlor: 900 ppm, LCM: 3#

HEEBNER SHALE 3006 (-1152)

TORONTO 3028 (-1174)

LANSING 3053 (-1199)

DST # 2 3040 - 3130
30"-60"-30"-60"
IF: Fair blow, inc. to 9 inches
FF: No Blow
RECOVERY: 10 Ft. Oil Spotted Mud
IHP: 1570 psi FHP: 1480 psi
IFP: 25-29 psi ISIP: 1154 psi
FFP: 35-39 psi FSIP: 1155 psi
BHT: 96 deg. F.

Mud-Co mud check @ 3704'
Vis: 75, Wt: 9.2, WL: 5.8
Chlor: 1,700 ppm, LCM: 3#

BASE/KANSAS CITY 3331 (-1477)

VIOLA 3590 (-1736)

ARBuckle 3700 (-1846)

Mud-Co mud check @ 3512'
Vis: 61, Wt: 9.4, WL: 5.8
Chlor: 1,100 ppm, LCM: 3#

STARK SHALE 3271 (-1417)

BASE/ANHYDRITE 3331 (-1477)

VIOLA 3590 (-1736)

SIMPSON 3653 (-1799)

ARBuckle 3700 (-1846)

Mud-Co mud check @ 3704'
Vis: 75, Wt: 9.2, WL: 5.8
Chlor: 1,700 ppm, LCM: 3#

TOTAL DEPTH 3767 (-1913)

Operator: MURFIN DRILLING COMPANY, INC.
Lease: THORNBERG # 1-6
Location: 2310 FSL & 1000 FWL SEC. 6 TWP: 8S RGE: 14W
County: OSBORNE State: KANSAS



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Co. Inc.

250 N Water STE 300
Wichita KS 67202

ATTN: Paul Gunzelman

Thornburg #1-6

6-8-14, Osborne, KS

Job Ticket: 44604

DST#: 1

Test Start: 2011.09.04 @ 22:30:19

GENERAL INFORMATION:

Formation: **Topeka**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:05:49

Time Test Ended: 07:48:49

Test Type: Conventional Bottom Hole

Tester: Brett Dickinson

Unit No: 47

Interval: 2798.00 ft (KB) To 2818.00 ft (KB) (TVD)

Reference Elevations: 1859.00 ft (KB)

Total Depth: 2818.00 ft (KB) (TVD)

1854.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition:

KB to GR/CF: 5.00 ft

Serial #: 6753 Inside

Press @ Run Depth: 82.80 psig @ 2799.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.09.04

End Date: 2011.09.05

Last Calib.: 2011.09.05

Start Time: 22:30:24

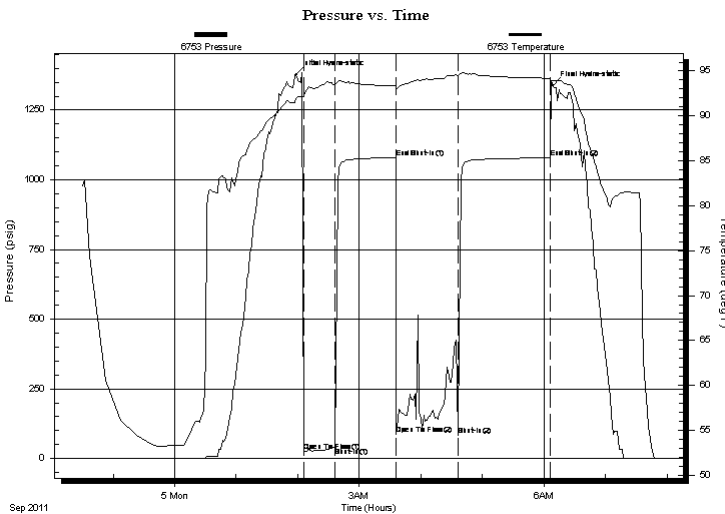
End Time: 07:48:49

Time On Btm: 2011.09.05 @ 01:58:19

Time Off Btm: 2011.09.05 @ 06:08:49

TEST COMMENT: IF-9in blow
ISI-No blow
FF-8in blow
FSI-weak surface blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1376.61	91.93	Initial Hydro-static
8	25.81	92.17	Open To Flow (1)
38	41.26	93.52	Shut-In(1)
97	1079.96	93.38	End Shut-In(1)
98	86.44	92.89	Open To Flow (2)
158	82.80	94.44	Shut-In(2)
248	1078.16	94.20	End Shut-In(2)
251	1339.62	93.96	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	SGOCM 10%G 25%O 65%M	0.30
120.00	SGO 5%G 95%O	0.60

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co. Inc.

Thornburg #1-6

250 N Water STE 300
Wichita KS 67202

6-8-14, Osborne, KS

Job Ticket: 44604

DST#: 1

ATTN: Paul Gunzelman

Test Start: 2011.09.04 @ 22:30:19

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

28 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 65.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.20 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	SGOCM 10%G 25%O 65%M	0.295
120.00	SGO 5%G 95%O	0.599

Total Length: 180.00 ft

Total Volume: 0.894 bbl

Num Fluid Samples: 0

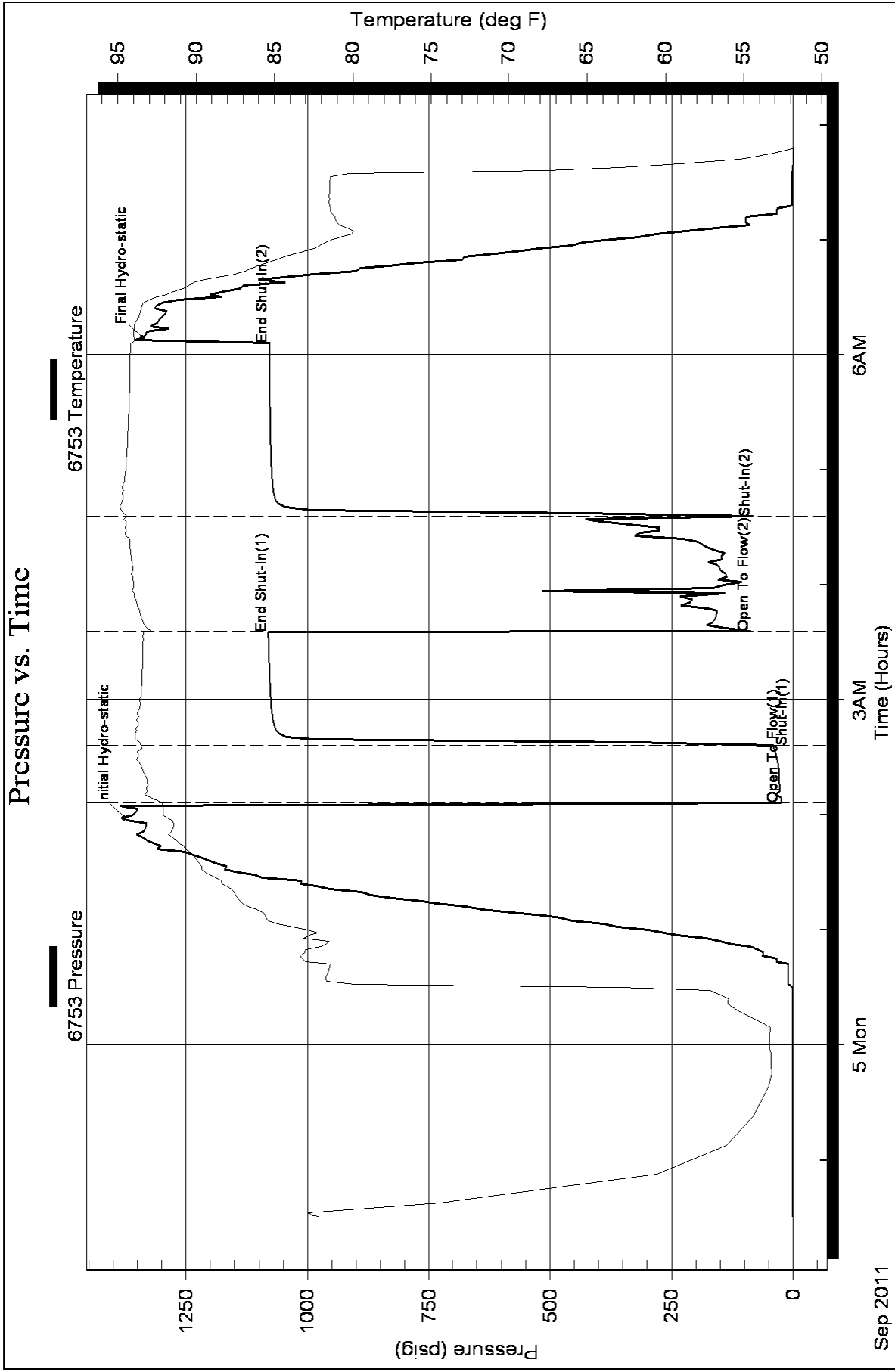
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Co. Inc.

250 N Water STE 300
Wichita KS 67202

ATTN: Paul Gunzelman

Thornburg #1-6

6-8-14, Osborne, KS

Job Ticket: 44605

DST#: 2

Test Start: 2011.09.06 @ 06:20:42

GENERAL INFORMATION:

Formation: **KC "A-D"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:00:42

Time Test Ended: 12:26:12

Test Type: Conventional Bottom Hole

Tester: Brett Dickinson

Unit No: 47

Interval: 3040.00 ft (KB) To 3130.00 ft (KB) (TVD)

Reference Elevations: 1859.00 ft (KB)

Total Depth: 3130.00 ft (KB) (TVD)

1854.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 6753

Inside

Press @ Run Depth: 38.55 psig @ 3111.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.09.06

End Date: 2011.09.06

Last Calib.: 2011.09.06

Start Time: 06:20:47

End Time: 12:26:11

Time On Btm: 2011.09.06 @ 07:59:12

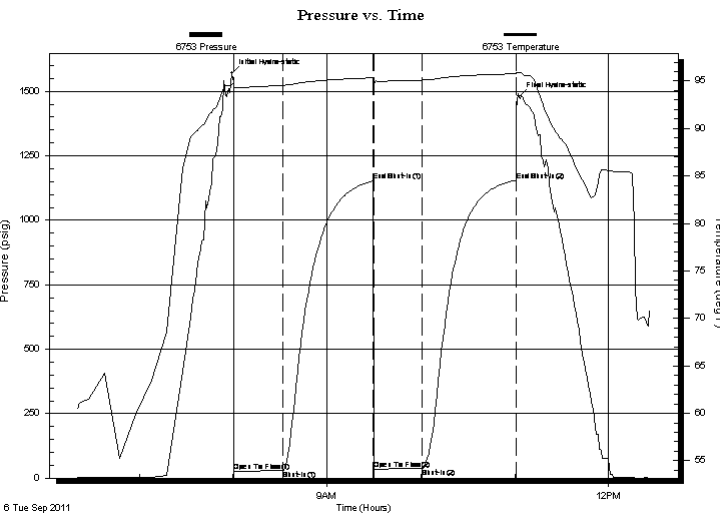
Time Off Btm: 2011.09.06 @ 11:02:42

TEST COMMENT: IF-1 1/4in blow

ISI-No blow

FF-No blow

FSI-No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1569.96	94.63	Initial Hydro-static
2	24.89	94.22	Open To Flow (1)
33	28.66	94.55	Shut-In(1)
91	1153.80	95.35	End Shut-In(1)
91	35.01	94.74	Open To Flow (2)
122	38.55	95.11	Shut-In(2)
182	1154.92	95.78	End Shut-In(2)
184	1480.33	95.86	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	O Spotted Mud	0.05

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co. Inc.

Thornburg #1-6

250 N Water STE 300
Wichita KS 67202

6-8-14, Osborne, KS

Job Ticket: 44605

DST#: 2

ATTN: Paul Gunzelman

Test Start: 2011.09.06 @ 06:20:42

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 65.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.80 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 900.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	OSpotted Mud	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

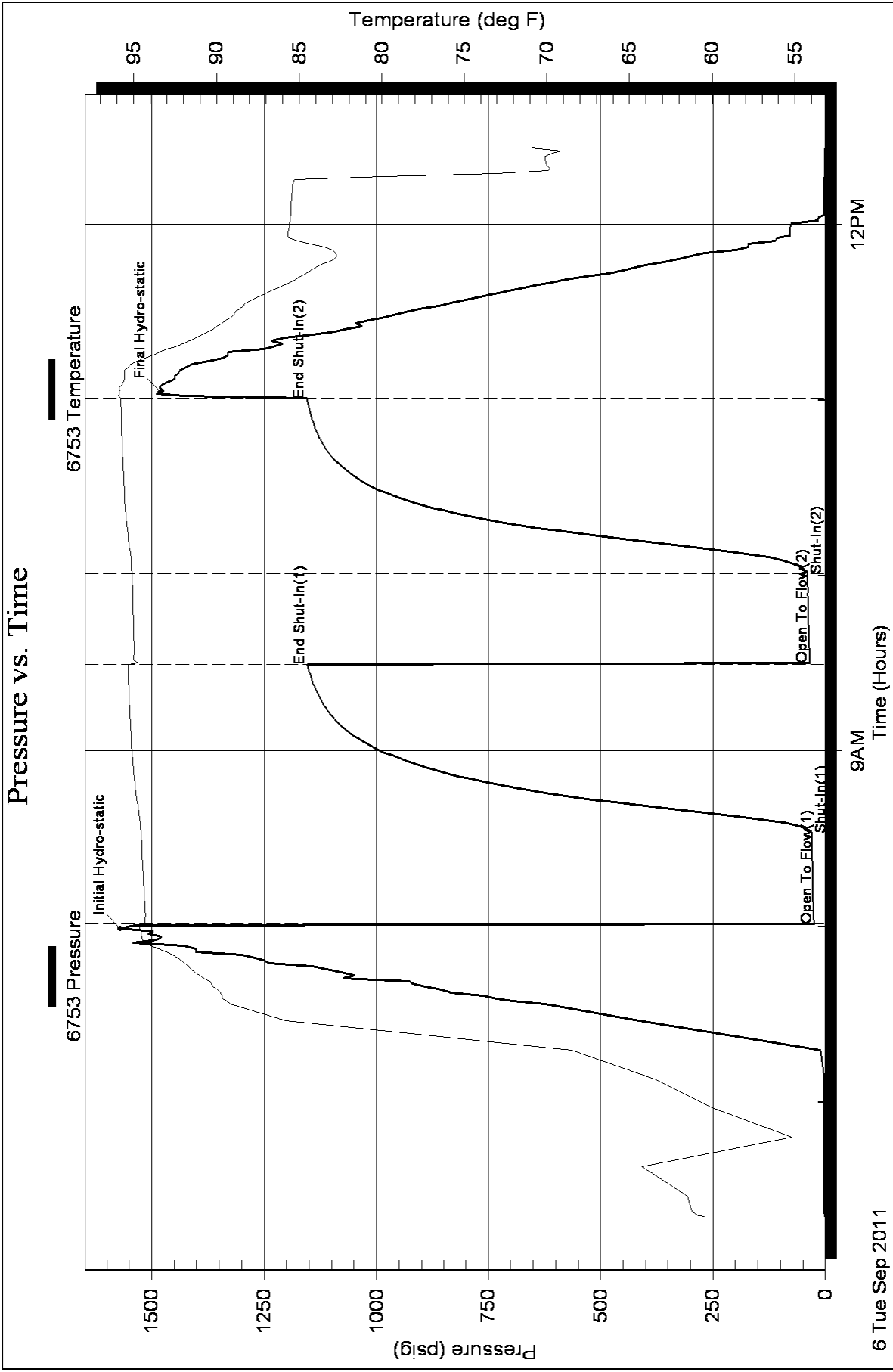
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Co. Inc.

250 N Water STE 300
Wichita KS 67202

ATTN: Paul Gunzelman

Thornburg #1-6

6-8-14, Osborne, KS

Job Ticket: 44606

DST#: 3

Test Start: 2011.09.07 @ 09:55:23

GENERAL INFORMATION:

Formation: **KC "I-L"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:12:23

Time Test Ended: 18:15:23

Test Type: Conventional Bottom Hole

Tester: Brett Dickinson

Unit No: 47

Interval: 3218.00 ft (KB) To 3331.00 ft (KB) (TVD)

Reference Elevations: 1859.00 ft (KB)

Total Depth: 3331.00 ft (KB) (TVD)

1854.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 6753

Inside

Press @ Run Depth: 199.82 psig @ 3219.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.09.07

End Date: 2011.09.07

Last Calib.: 2011.09.07

Start Time: 09:55:28

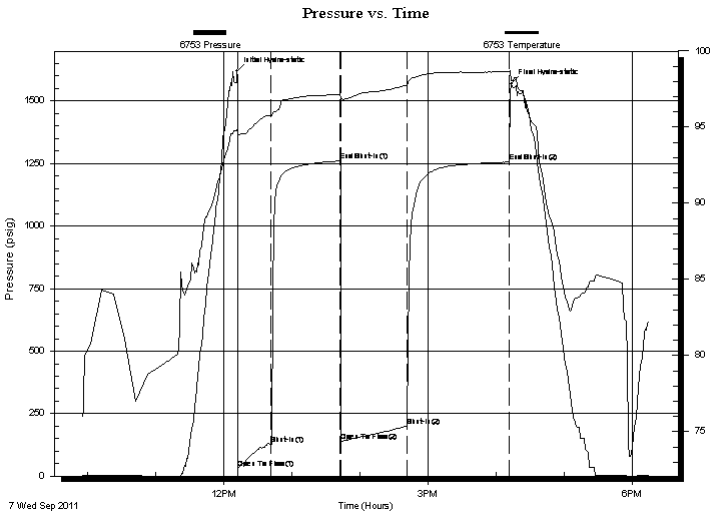
End Time: 18:15:22

Time On Btm: 2011.09.07 @ 12:11:23

Time Off Btm: 2011.09.07 @ 16:12:53

TEST COMMENT: IF-BOB in 24min
ISI-NO Blow
FF-BOB in 33min
FSI-No Blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1619.19	94.83	Initial Hydro-static
1	32.96	94.44	Open To Flow (1)
30	125.51	95.78	Shut-In(1)
91	1260.36	97.18	End Shut-In(1)
92	140.63	96.85	Open To Flow (2)
150	199.82	97.76	Shut-In(2)
240	1255.83	98.65	End Shut-In(2)
242	1568.51	98.07	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	mud	0.59
310.00	MCW 20%M 80%W	3.81

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co. Inc.

Thornburg #1-6

250 N Water STE 300
Wichita KS 67202

6-8-14, Osborne, KS

Job Ticket: 44606

DST#: 3

ATTN: Paul Gunzelman

Test Start: 2011.09.07 @ 09:55:23

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

68000 ppm

Viscosity: 59.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.80 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 8000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	mud	0.590
310.00	MCW 20%M 80%W	3.811

Total Length: 430.00 ft

Total Volume: 4.401 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

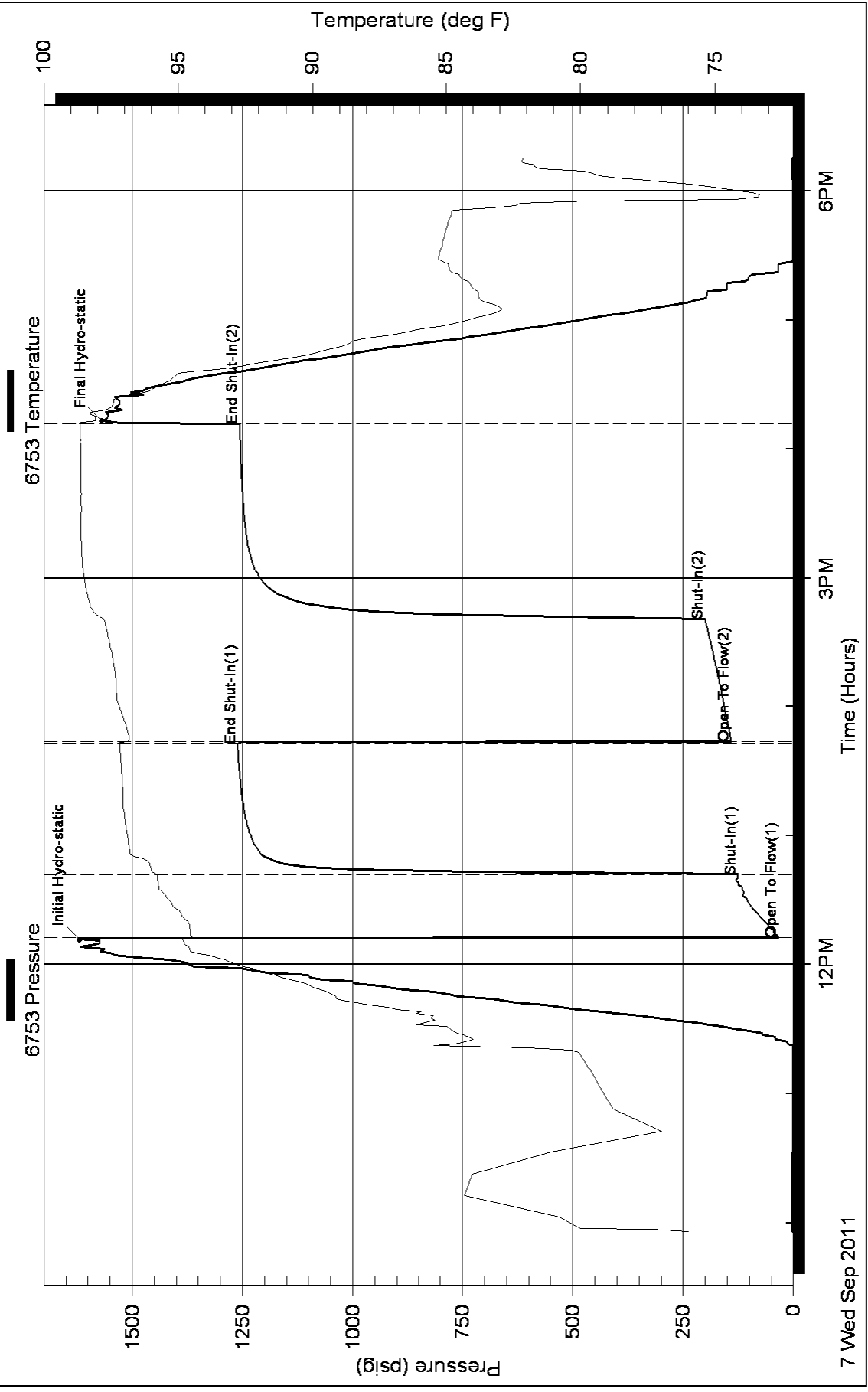
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .1

Pressure vs. Time





24 S. Lincoln Street
P.O. Box 31
Russell, KS 67665-2906

Voice: (817) 546-7282
Fax: (817) 246-3361

my acct.

INVOICE

Invoice Number: 128460

Invoice Date: Sep 1, 2011

Page: 1

PROD COPY

Federal Tax I.D.#: 20-5975804

Bill To:
Murfin Drlg. Co., Inc.
250 N. Water
STE #300
Wichita, KS 67202

*operator pay
MPC*

Customer ID	Well Name# or Customer P.O.	Payment Terms	
Murfin	Thornburg #1-6	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS2-01	Russell	Sep 1, 2011	10/1/11

Quantity	Item	Description	Unit Price	Amount
150.00	MAT	Class A Common	16.25	2,437.50
3.00	MAT	Gel	21.25	63.75
5.00	MAT	Chloride	58.20	291.00
158.00	SER	Handling	2.25	355.50
20.00	SER	Mileage 158 sx @ .11 per sk per mi	17.38	347.60
1.00	SER	Surface	1,125.00	1,125.00
40.00	SER	Pump Truck Mileage	7.00	280.00
40.00	SER	Light Vehicle Mileage	4.00	160.00
1.00	CEMENTER	Shane Poche		
1.00	EQUIP OPER	Ron Bennett		
1.00	OPER ASSIST	Cody Hoss		

Account	Amount	Description
<i>ID203</i>	<i>5248.15</i>	<i>Compt S.G</i>
	<i>(1248.35)</i>	
	<i>3.8077.0001</i>	

1-6

ALL PRICES ARE NET, PAYABLE 30 DAYS FOLLOWING DATE OF INVOICE. 1 1/2% CHARGED THEREAFTER. IF ACCOUNT IS CURRENT, TAKE DISCOUNT OF

\$ 1248.35

ONLY IF PAID ON OR BEFORE
Sep 26, 2011

Subtotal	5,060.35
Sales Tax	217.80
Total Invoice Amount	5,278.15
Payment/Credit Applied	
TOTAL	5,278.15

4079.80

(1248.35)

ALLIED CEMENTING CO., LLC. 038252

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT
Russell

DATE <u>9/1/11</u>	SEC. <u>6</u>	TWP. <u>5</u>	RANGE <u>14</u>	CALLED OUT	ON LOCATION	JOB START <u>8:30p</u>	JOB FINISH <u>9:00p</u>
LEASE <u>Thorburn</u>	WELL # <u>1-C</u>	LOCATION <u>Natom + 657 Rd</u>			COUNTY <u>Osborne</u>	STATE <u>Ks</u>	
OLD OR NEW (Circle one)							

CONTRACTOR Murphy Drilling Co # 8

TYPE OF JOB Surface Dr

HOLE SIZE 12 1/4 T.D. 217

CASING SIZE 8 1/2 DEPTH 212.20

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG. 15

PERFS.

DISPLACEMENT 12.87681

OWNER

CEMENT

AMOUNT ORDERED 150 Con 3.5CC

2.5 Gal

COMMON	<u>150</u>	@ <u>16.25</u>	<u>2437.50</u>
POZMIX		@	
GEL	<u>3</u>	@ <u>21.25</u>	<u>63.75</u>
CHLORIDE	<u>5</u>	@ <u>58.20</u>	<u>291.00</u>
ASC		@	
		@	
		@	
		@	
		@	
		@	
		@	
HANDLING	<u>158</u>	@ <u>2.25</u>	<u>355.50</u>
MILEAGE	<u>11.56/mile (20)</u>		<u>397.60</u>
TOTAL			<u>3495.35</u>

REMARKS:

Ran 5 jts + Landing Jt.

Mixed 150 lbs

Cement Circulated

SERVICE

DEPTH OF JOB			
PUMP TRUCK CHARGE			<u>1125.00</u>
EXTRA FOOTAGE		@	
MILEAGE	<u>40</u>	@ <u>7.00</u>	<u>280.00</u>
MANIFOLD		@	
		@	
<u>CON</u>	<u>40</u>	@ <u>4.00</u>	<u>160.00</u>
TOTAL			<u>1565.00</u>

CHARGE TO: Murphy Drilling

STREET _____

CITY _____ STATE _____ ZIP _____

PLUG & FLOAT EQUIPMENT

	@	
	@	
	@	
	@	
	@	
TOTAL _____		

To Allied Cementing Co., LLC.

You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME Rodney Fay

SIGNATURE Rodney Fay

SALES TAX (If Any) _____

TOTAL CHARGES 5060.35

DISCOUNT 50/20 IF PAID IN 30 DAYS

Accty — cc: WF
cc: LK-1
Scan-Lit



QUALITY OILWELL CEMENTING, INC.
 PO Box 32 - 740 West Wichita Ave, Russell KS 67665
 Phone: 785-324-1041 fax: 785-483-1087
 Email: cementing@ruraltel.net

Date: 9/23/2011
 Invoice # 5099

P.O.#:
 Due Date: 10/23/2011
 Division: Russell

Invoice

Contact:
 Murfin Drilling Company
Address/Job Location:
 Murfin Drilling Company
 P.O. Box 288
 Russell Ks 67665

USED FOR IC 103
 APPROVED [Signature]

Reference:
 THORNBURG 1-6

Description of Work:
 PORT COLLAR

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 950.65	No				
non, MetsoBeads, Plater, Gel, FloSeal, Calcium)	155	\$ 3,085.39	Yes				
Bulk Truck Matl-Material Service Charge	200	\$ 416.44	No				
Pump Truck Mileage-Job to Nearest Camp	39	\$ 405.22	No				
Bulk Truck Mileage-Job to Nearest Bulk Plant	39	\$ 237.12	No				
Flo Seal	50	\$ 104.11	Yes				

Invoice Terms:

Net 30		SubTotal:	\$	5,198.92
		Discount Available <u>ONLY</u> if Invoice is Paid & Received within listed terms of invoice:	\$	(779.84)
		<hr/>		
		SubTotal for Taxable Items:	\$	2,711.08
		SubTotal for Non-Taxable Items:	\$	1,708.01
		<hr/>		
		Total:	\$	4,419.08
		Tax:	\$	211.46
		Amount Due:	\$	4,630.55
		Applied Payments:		
		Balance Due:	\$	4,630.55

7.80% Osborne County Sales Tax

Thank You For Your Business!

Past Due Invoices are subject to a service charge (annual rate of 24%)
 This does not include any applicable taxes unless it is listed.
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QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 5099

Date	9-20-11	Sec.	Twp.	Range	County	State	On Location	Finish
Lease	Thornburg	Well No.	1-6		Location	Osborne Kansas Nataona 11 N 2E 1W		11:00 AM
Contractor	Murphy	Owner			To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.			
Type Job	Test Collar	Hole Size	T.D.		Charge To	Murphy		
Csg.	4 1/2	Tbg. Size	Depth		Street			
Tool	Test Collar	Cement Left in Csg.	Depth		City	State		
Meas Line		Shoe Joint	Depth		The above was done to satisfaction and supervision of owner agent or contractor.			
		Displace	3 1/2 Bbl		Cement Amount Ordered 200 RMC 1/4 Flour of			

EQUIPMENT

Pumptrk	5	No.	Cementor	Star	Common
			Helper		
Bulktrk	3	No.	Driver	Paul	Poz. Mix
			Driver		
Bulktrk		No.	Driver	Dave	Gel.
			Driver		

JOB SERVICES & REMARKS

Remarks:	Hulls
Rat Hole	Salt
Mouse Hole	Flowseal 50#
Centralizers	Kol-Seal
Baskets	Mud CLR 48
D/V or Port Collar	CFL-117 or CD110 CAF 38
Port Collar @ 1145	Sand
Pressure casing to 800psi	Handling
Open tool & break circulation	Mileage

FLOAT EQUIPMENT

Mix 15.5sx & circulate cement	Guide Shoe
Close tool & pressure casing to 800psi	Centralizer
Run 5jts & wash clean	Baskets
	AFU Inserts
	Float Shoe
	Latch Down

Pumptrk Charge port collar
Mileage 39

Tax	
Discount	
Total Charge	

X Signature

Mark Kallen

Arco -

cc: WJ
cc: LR-1
Scan: 6/12

9-11-2011

Date: 9/15/2011
Invoice # 5295

P.O.#:

Due Date: 9/14/2011

Division: Russell



QUALITY OILWELL CEMENTING, INC.

PO Box 32 - 740 West Wichita Ave, Russell KS 67665
Phone: 785-324-1041 fax: 785-483-1087
Email: cementing@ruraltel.net

Invoice

Contact:

Murfin Drilling Company
Address/Job Location:
Murfin Drilling Company
P.O. Box 288
Russell Ks 67665

USED FOR IC 103
APPROVED [Signature]

Reference:

THORNBURG 1-6

Description of Work:

PROD LONG STRING

Services / Items Included:

	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 937.80	No	Bulk Truck Mileage-Job to Nearest Bulk Plant	39	\$233.92	No
Common-Class A	300	\$ 3,758.92	Yes	Latch Down Plug & Baffle, 4 1/2"	1	\$201.30	Yes
Cement Port Collar, 4 1/2"	1	\$ 2,454.59	Yes	Cement Scratchers Cable Type, 4 1/2"	1	\$71.89	Yes
Gilsonite	1500	\$ 2,310.81	Yes				
Bulk Truck Mat-Material Service Charge	341	\$ 700.43	No				
4 1/2" Turbolizer	12	\$ 566.92	Yes				
4 1/2" Basket	2	\$ 431.35	Yes				
Mud Clear	500	\$ 380.00	Yes				
Salt (Fine)	26	\$ 372.77	Yes				
Pump Truck Mileage-Job to Nearest Camp	39	\$ 399.74	No				
Auto Fill Float Shoe, 4 1/2"	1	\$ 283.46	Yes				

Invoice Terms:

Net 30

SubTotal: \$ 13,103.90

Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice: \$ (1,965.58)

SubTotal for Taxable Items: \$ 9,207.21

SubTotal for Non-Taxable Items: \$ 1,931.10

Total: \$ 11,138.31

Tax: \$ 718.16

7.80% Osborne County Sales Tax

Thank You For Your Business!

Amount Due: \$ 11,856.48

Applied Payments:

Balance Due: \$ 11,856.48

Past Due Invoices are subject to a service charge (annual rate of 24%)

This does not include any applicable taxes unless it is listed.

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QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 5295

Date	9/9/11	Sec.	6	Twp.	8	Range	14	County	Osborne	State	KS	On Location		Finish	5:00 PM
Lease	Thornburg			Well No.	1-6			Location	Nortoma, 656 + Hwy 18, N to 388 Rd, 2.1 E, IN, E into						
Contractor	Murfin Drilling Rig #8							Owner	To Quality Oilwell Cementing, Inc.						
Type Job	Production String							You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.							
Hole Size	7 7/8"			T.D.	3767'			Charge To	Murfin Drilling Co., Inc.						
Csg.	4 1/2" 10.50#			Depth	3412'			Street							
Tbg. Size				Depth				City	State						
Tool	Port Collar			Depth	1148' Jt#55			The above was done to satisfaction and supervision of owner agent or contractor.							
Cement Left in Csg.	22.69'			Shoe Joint	22.69'			Cement Amount Ordered 300sx Com 10% Salt							
Meas Line				Displace	58.65 Bbls.			5% Gilsomite							

EQUIPMENT

Pumptrk	9	No.	Cementer	Paul	Common	300
			Helper			
Bulktrk	14	No.	Driver	Matt	Poz. Mix	
			Driver			
Bulktrk	PV	No.	Driver	Brian	Gel.	
			Driver			

JOB SERVICES & REMARKS

Remarks:	Hulls
Rat Hole 30sx	Salt 26
Mouse Hole	Flowseal
Centralizers 1,3,5,7,9,11,13,15,17,19,21,56	Kol-Seal 1500#
Baskets 1,55	Mud CLR 48 500 gal.
Port Collar 1148' Jt. #55	CFL-117 or CD110 CAF 38
Est. Circ. - 1 hour	Sand
Pump 500 gal mud flush	Handling 341
Plug Rat	Mileage
Mix 230 sx down 4 1/2"	4 1/2" FLOAT EQUIPMENT
Displace	Guide Shoe
Lead Plug	Centralizer 12 - Turbos
Float Head	Baskets 2
	AP Inserts 1 port Collar
	Float Shoe 1
	Latch Down 1
	10 - Recip Scrubbers
	Pumptrk Charge prod Long String
	Mileage 39

Thank You!!

X Signature *Mark Ralston*

Tax	
Discount	
Total Charge	